

Student Name: _____

Date: _____

Period #: _____

Unit 1: Quiz 8

Manipulation of Algebraic Expressions & Equations

1. Simplify the following:

a. $7(14x - 8) - 8x$

b. $2 - 4(6 - (8x - 9))$

c. $11x^2 + 3 - (5(x^2 - 5) + 7)$

d. $(3x^5y^4)^3(-7x^2y^{-2})^4$

2. Solve for both x and y:

a. $3x - 2y = 6$

$x - y = 1$

Given two linear equations solve for the unknown variables a & b

3. $-a + 3b = -5$
 $a = 4b - 1$

4. $-2a - 3b = -5$
 $a = b + 1$

5. $3a + b = 4$
 $b = -3a - 4$

6. $-5a - 4b = -2$
 $a = -3b + 1$

7. $-3a - b = 2$
 $b = -2a + 2$

8. $-a - 3b = -1$
 $a = 3b - 5$